

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows. Please add new claims 19-33.

1. (Previously Presented) A computer-implemented method for composing network accessible services said method comprising the steps of:

storing an abstract plan in a computer storage medium that specifies a set of logical processes that identify a type of network accessible service to be used and an order of use of said network accessible service, wherein each service is assigned to said abstract plan in a predetermined manner;

determining, using a processor, an instantiated plan that specifies at least one particular network accessible service that can perform each one of the logical processes of the abstract plan;

evaluating, using said processor, said instantiated plan for violations of predetermined constraints relating to subsequent execution of the determined network accessible services of said instantiated plan;

rejecting, using said processor, an instantiated plan if the evaluated instantiated plan violates at least one of the predetermined constraints; and

~~determining, using said processor, a set of parameters concerning the instantiated plan, and an approximate range of each of the parameters; and~~

~~composing~~ requesting, using said processor, an alternative abstract plan based on said evaluated instantiated plan violating at least one of the predetermined constraints[[],]; and

composing, using said processor, said alternative abstract plan based on receiving information in said requesting of said alternative abstract plan of a specific predetermined

constraint that caused a violation,

~~wherein the abstract plan specifies an ordered set of logical processes, and~~

wherein the abstract plan is represented in a predetermined form using a web services composition language.

2-6. (Canceled).

7. (Previously Presented) A computer storage medium readable by a computer tangibly embodying a program of instructions executable by said computer for performing a method of composing network accessible services, said computer-implemented method comprising:

storing an abstract plan in a computer storage medium that specifies a set of logical processes that identify a type of network accessible service to be used and an order of use of said network accessible service, wherein each service is assigned to said abstract plan in a predetermined manner;

determining, using a processor, an instantiated plan that specifies at least one of particular network accessible service that can perform each one of the logical processes of the abstract plan;

evaluating, using said processor, said instantiated plan for violations of predetermined constraints relating to subsequent execution of the determined network accessible services of said instantiated plan;

rejecting, using said processor, an instantiated plan if the evaluated instantiated plan violates at least one of the predetermined constraints; and

~~determining, using said processor, a set of parameters concerning the instantiated plan,~~

~~and an approximate range of each of the parameters; and~~

~~composing~~ requesting, using said processor, an alternative abstract plan based on said evaluated instantiated plan violating at least one of the predetermined constraints[[,]]; and

composing, using said processor, said alternative abstract plan based on receiving information in said requesting of said alternative abstract plan of a specific predetermined constraint that caused a violation,

~~wherein the abstract plan specifies an ordered set of logical processes, and~~

wherein the abstract plan is represented in a predetermined form using a web services composition language.

8. (Previously Presented) A computer system comprising computer-readable storage media storing instructions to cause said computer system to provide composing services comprising:

means for storing an abstract plan that specifies a set of logical processes that identify a type of network accessible service to be used and an order of use of said network accessible service, wherein each service is assigned to said abstract plan in a predetermined manner;

means for determining an instantiated plan that specifies at least one particular network accessible service that can perform each one of the logical processes of the abstract plan;

means for evaluating said instantiated plan for violations of predetermined constraints relating to subsequent execution of the determined network accessible services of said instantiated plan; and

means for rejecting an instantiated plan if the evaluated instantiated plan violates at least one of the predetermined constraints; and

~~means for determining a set of parameters concerning the instantiated plan, and an approximate range of each of the parameters; and~~

means for ~~composing~~ requesting an alternative abstract plan based on said evaluated instantiated plan violating at least one of the predetermined constraints[[,]]; and

composing, using said processor, said alternative abstract plan based on receiving information in said requesting of said alternative abstract plan of a specific predetermined constraint that caused a violation,

~~wherein the abstract plan specifies an ordered set of logical processes, and~~

wherein the abstract plan is represented in a predetermined form using a web services composition language.

9-18. (Canceled).

19. (New) The computer-implemented method according to claim 1, wherein said predetermined constraints comprise a set of parameters concerning the instantiated plan, and an approximate range of each of the parameters

20. (New) The computer-implemented method according to claim 1, wherein said requesting said alternative abstract plan further comprises:

communicating information regarding a specific node in said abstract plan that caused a violation of said predetermined constraints.

21. (New) The computer-implemented method according to claim 20, wherein said

composing said alternative plan is guided away from using said specific node based on said information.

22. (New) The computer-implemented method according to claim 1, further comprising:

determining, using a processor, an alternative instantiated plan that specifies at least one particular network accessible service that can perform each one of the logical processes of the alternative abstract plan.

23. (New) The computer-implemented method according to claim 1, further comprising:

evaluating, using said processor, said alternative instantiated plan for violations of said predetermined constraints relating to subsequent execution of the determined network accessible services of said alternative instantiated plan.

24. (New) The computer storage medium according to claim 7, wherein said predetermined constraints comprise a set of parameters concerning the instantiated plan, and an approximate range of each of the parameters.

25. (New) The computer storage medium according to claim 7, wherein said requesting said alternative abstract plan further comprises:

communicating information regarding a specific node in said abstract plan that caused a violation of said predetermined constraints.

26. (New) The computer storage medium according to claim 25, wherein said composing said alternative plan is guided away from using said specific node based on said information.

27. (New) The computer storage medium according to claim 7, further comprising:
determining, using a processor, an alternative instantiated plan that specifies at least one particular network accessible service that can perform each one of the logical processes of the alternative abstract plan.

28. (New) The computer storage medium according to claim 7, further comprising:
evaluating, using said processor, said alternative instantiated plan for violations of said predetermined constraints relating to subsequent execution of the determined network accessible services of said alternative instantiated plan.

29. (New) The computer system according to claim 8, wherein said predetermined constraints comprise a set of parameters concerning the instantiated plan, and an approximate range of each of the parameters

30. (New) The computer system according to claim 8, wherein said means for requesting said alternative abstract plan further comprises:
means for communicating information regarding a specific node in said abstract plan that caused a violation of said predetermined constraints.

31. (New) The computer system according to claim 30, wherein said means for composing said alternative plan is guided away from using said specific node based on said information.

32. (New) The computer system according to claim 8, further comprising:
means for determining, using a processor, an alternative instantiated plan that specifies at least one particular network accessible service that can perform each one of the logical processes of the alternative abstract plan.

33. (New) The computer system according to claim 8, further comprising:
means for evaluating, using said processor, said alternative instantiated plan for violations of said predetermined constraints relating to subsequent execution of the determined network accessible services of said alternative instantiated plan.